CONSTRAINED TRACKING OF GROUND OBJECTS
USING REGIONAL MEASUREMENTS

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STATEMENT OF GOVERNMENT INTEREST

[0001] Portions of the present invention may have been made in conjunction with Government funding under contract number N66001-98-C8515 and there may be certain rights to the Government.

RELATED APPLICATIONS

[0002] This application claims the benefit of U.S. Provisional Application No. 60/509,835 filed October 8, 2003, and U.S. Provisional Application 60/604224 filed August 24, 2004, both of these applications are herein incorporated in their entirety by reference.

FIELD OF THE INVENTION

[0003] The invention relates to tracking of objects, and more particularly. to a system of tracking targets using constrained tracking.

BACKGROUND OF THE INVENTION

[0004] There are numerous fields and applications related to tracking of targets and the estimation of position/location of the targets at some future time based on mathematical equations. For example, Kalman filtering is an efficient computational (recursive) means to estimate the state of a process, in a way that minimizes the mean of the squared error and is very beneficial in that it supports estimations of past, present, and even future